

ifw

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Tadaaki IKEDA

Application No.: 10/532,813

Filed: April 26, 2005

For: LIGHT-EMITTING DIODE



Customer Number: 20277

Confirmation Number: 8954

Group Art Unit: 2875

Examiner: Not yet assigned

SECOND REQUEST FOR CORRECTED FILING RECEIPT

Mail Stop COFR
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Attached is a copy of the Filing Receipt received from the U.S. Patent and Trademark Office in the above-referenced application. It is noted that the foreign application data was omitted. Attached is a copy of the Form PCT/IB/304 and the front page of the international published application, which evidences that the foreign application data should read: **JAPAN 2002-320889 11/05/2002, JAPAN 2003-286672 08/05/2003, JAPAN 2003-286673 08/05/2003, JAPAN 2003-296065 08/20/2003, JAPAN 2003-299590 08/25/2003, JAPAN 2003-308564 09/01/2003, JAPAN 2003-308563 09/01/2003.** It is requested that a corrected filing receipt be issued.

Respectfully submitted,

McDERMOTT WILL & EMERY LLP

Michael E. Fogarty
Registration No. 36,139

600 13th Street, N.W.
Washington, DC 20005-3096
Phone: 202.756.8000 MEF:ark
Facsimile: 202.756.8087
Date: August 23, 2006

**Please recognize our Customer No. 20277
as our correspondence address.**



UNITED STATES PATENT AND TRADEMARK OFFICE

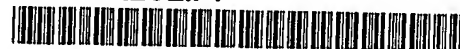
UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/532,813	04/26/2005	2875	1150	071971-0210	9	25	2

20277
MCDERMOTT WILL & EMERY LLP
600 13TH STREET, N.W.
WASHINGTON, DC 20005-3096

CONFIRMATION NO. 8954

FILING RECEIPT



OC000000017446368

Date Mailed: 11/15/2005

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Tadaaki Ikeda, Kagoshima, JAPAN;
Shinji Tokutomi, Kagoshima, JAPAN;
Noriaki Koga, Kagoshima, JAPAN;

Assignment For Published Patent Application

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., OSAKA, JAPAN

Power of Attorney: The patent practitioners associated with Customer Number 20277.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP03/14048 11/04/2003

Foreign Applications

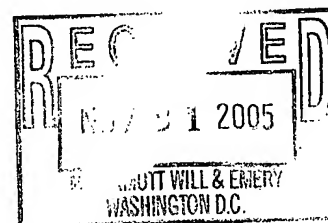
JAPAN 2002-320889 11/05/2002, JAPAN 2003-286672, ... etc.

Projected Publication Date: 02/16/2006

Non-Publication Request: No

Early Publication Request: No

Title



Light-emitting diode

**Preliminary Class**

362

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

LICENSE FOR FOREIGN FILING UNDER Title 35, United States Code, Section 184 Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

PATENT COOPERATION TREATY

PCT

NOTIFICATION CONCERNING
SUBMISSION OR TRANSMITTAL
OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

From the INTERNATIONAL BUREAU

To:

MAEDA, Hiroshi
Honmachi-nakajima Bldg., 4-8,
Utsubohonmachi 1-chome, Nishi-ku
Osaka-shi, Osaka 550-0004
Japan

RECEIVED

MAR. 12. 2004

Date of mailing (day/month/year) 04 March 2004 (04.03.2004)			
Applicant's or agent's file reference M03-YG306CT1	MAEDA PATENT OFFICE		
International application No. PCT/JP2003/014048	IMPORTANT NOTIFICATION		
International publication date (day/month/year) Not yet published	International filing date (day/month/year) 04 November 2003 (04.11.2003)	Priority date (day/month/year) 05 November 2002 (05.11.2002)	
Applicant MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. et al			

- By means of this Form, which replaces any previously issued notification concerning submission or transmittal of priority documents, the applicant is hereby notified of the date of receipt by the International Bureau of the priority document(s) relating to all earlier application(s) whose priority is claimed. Unless otherwise indicated by the letters "NR", in the right-hand column or by an asterisk appearing next to a date of receipt, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
- (If applicable) The letters "NR" appearing in the right-hand column denote a priority document which, on the date of mailing of this Form, had not yet been received by the International Bureau under Rule 17.1(a) or (b). Where, under Rule 17.1(a), the priority document must be submitted by the applicant to the receiving Office or the International Bureau, but the applicant fails to submit the priority document within the applicable time limit under that Rule, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- (If applicable) An asterisk(*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b) (the priority document was received after the time limit prescribed in Rule 17.1(a) or the request to prepare and transmit the priority document was submitted to the receiving Office after the applicable time limit under Rule 17.1(b)). Even though the priority document was not furnished in compliance with Rule 17.1(a) or (b), the International Bureau will nevertheless transmit a copy of the document to the designated Offices, for their consideration. In case such a copy is not accepted by the designated Office as priority document, Rule 17.1(c) provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

<u>Priority date</u>	<u>Priority application No.</u>	<u>Country or regional Office or PCT receiving Office</u>	<u>Date of receipt of priority document</u>
05 Nove 2002 (05.11.2002)	2002-320889	JP	15 Janu 2004 (15.01.2004)
05 Augu 2003 (05.08.2003)	2003-286672	JP	15 Janu 2004 (15.01.2004)
05 Augu 2003 (05.08.2003)	2003-286673	JP	15 Janu 2004 (15.01.2004)
20 Augu 2003 (20.08.2003)	2003-296065	JP	15 Janu 2004 (15.01.2004)
25 Augu 2003 (25.08.2003)	2003-299590	JP	15 Janu 2004 (15.01.2004)
01 Sept 2003 (01.09.2003)	2003-308564	JP	15 Janu 2004 (15.01.2004)
01 Sept 2003 (01.09.2003)	2003-308563	JP	15 Janu 2004 (15.01.2004)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Patrick BLANCO (Fax 338 9090)
Facsimile No. (41-22) 338.90.90	Telephone No. (41-22) 338 8702

(19) 世界知的所有権機関
国際事務局(43) 国際公開日
2004年5月21日 (21.05.2004)

PCT

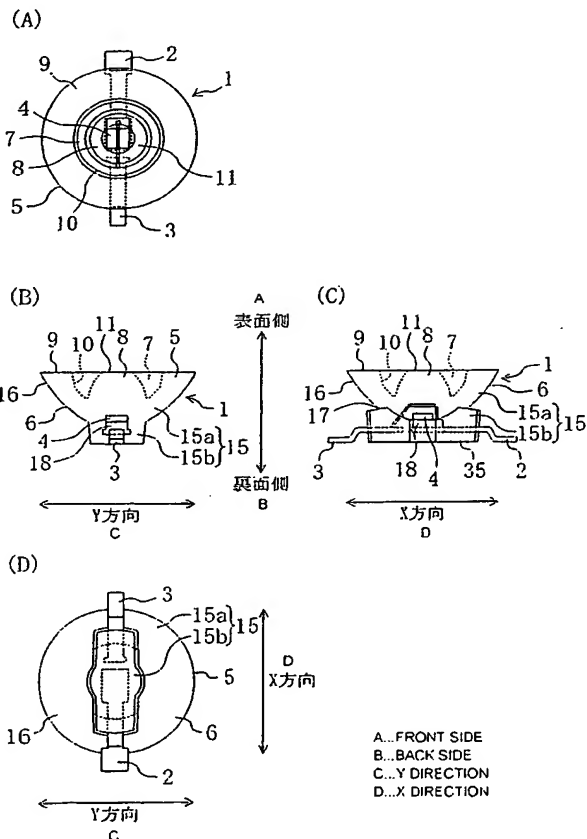
(10) 国際公開番号
WO 2004/042833 A1

- (51) 国際特許分類⁷: H01L 33/00
- (21) 国際出願番号: PCT/JP2003/014048
- (22) 国際出願日: 2003年11月4日 (04.11.2003)
- (25) 国際出願の言語: 日本語
- (26) 国際公開の言語: 日本語
- (30) 優先権データ:
- | | | |
|---------------|-------------------------|----|
| 特願2002-320889 | 2002年11月5日 (05.11.2002) | JP |
| 特願2003-286672 | 2003年8月5日 (05.08.2003) | JP |
| 特願2003-286673 | 2003年8月5日 (05.08.2003) | JP |
| 特願2003-296065 | 2003年8月20日 (20.08.2003) | JP |
| 特願2003-299590 | 2003年8月25日 (25.08.2003) | JP |
| 特願2003-308564 | 2003年9月1日 (01.09.2003) | JP |
| 特願2003-308563 | 2003年9月1日 (01.09.2003) | JP |
- (71) 出願人 (米国を除く全ての指定国について): 松下電器産業株式会社 (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.) [JP/JP]; 〒571-8501 大阪府門真市大字門真 1006番地 Osaka (JP).
- (72) 発明者; および
- (75) 発明者/出願人 (米国についてのみ): 池田 忠昭 (IKEDA, Tadaaki) [JP/JP]; 〒899-2503 鹿児島県日置郡伊集院町妙円寺 1-7 3-1 6 Kagoshima (JP). 徳富 眞治 (TOKUTOMI, Shinji) [JP/JP]; 〒899-2503 鹿児島県日置郡伊集院町妙円寺 1-1 1-4 Kagoshima (JP). 古閑 憲昭 (KOGA, Noriaki) [JP/JP]; 〒890-0003 鹿児島県鹿児島市伊敷町 3 1 0 8-2-4 0 1 Kagoshima (JP).
- (74) 代理人: 前田 弘, 外 (MAEDA, Hiroshi et al.); 〒550-0004 大阪府大阪市西区靱本町 1 丁目 4 番 8 号 本町中島ビル Osaka (JP).

/ 続葉有 /

(54) Title: LIGHT-EMITTING DIODE

(54) 発明の名称: 発光ダイオード



(57) Abstract: A light-emitting diode (1) comprises a semiconductor light-emitting device (4) mounted on the front surfaces of lead frames (2, 3) and a light-transmitting resin package (5) covering the front side of the semiconductor light-emitting device (4). A front side portion of the resin package (5) is provided with a convex lens portion (8) for focusing lights emitted from the semiconductor light-emitting device (4) to the front side. A portion of the convex lens (8) which intersects with the optical axis of the convex lens (8) is formed as a circular plane portion (11) for spreading lights emitted from the semiconductor light-emitting device (4) to lateral directions. The lateral portion of the convex lens (8) surrounds the periphery of the circular plane portion (11), and a concave portion (7) is provided so as to surround the side of the convex lens. The lateral portion of the convex lens serves as a part of the side wall of the concave portion (7).

(57) 要約: 本発明の発光ダイオード1は、リードフレーム2、3の表面上に搭載された半導体発光素子4と、半導体発光素子4の表側を覆う光透過性の樹脂パッケージ5とを備えている。樹脂パッケージ5の表面部には、半導体発光素子4から出射された光を表側に集光する凸レンズ部8が設けられ、凸レンズ部8のうち凸レンズ部8の光軸と交差する部分には、半導体発光素子4から出射された光を側方に拡げる円状平面部11が設けられている。凸レンズ部8のうち円状平面部11の側方を囲む部分は凸レンズ側面部であって、凸レンズの側方を囲む部分には、凸レンズ側面部を側壁の一部とする凹部7が設けられている。